



## **Client**

USDA APHIS PPQ

Steve Johnson

## **Program Manager**

Stephen Forgét

## **Team Members**

John DeMaris

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Brian Holley

Clay Stevens

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## Survey Data Collection

- **The current process:**
  - Too slow and not efficient.
  - There are multiple data entry points.
  - Labor intensive paperwork.
  - Universal standards not often used.
  - Prone to errors.
- **ISIS Solution:**
  - Survey software on Pocket PC.
  - Data management on Desktop.
  - Eliminate multiple data entry.
  - Paperless electronic data entry.
  - Easy to use



## Survey Data Collection

- **The current process:**
  - Survey data is not shared throughout the work units.
  - Multiple database designs.
  - No data integration.
- **ISIS Solution:**
  - Survey can be easily shared throughout the work units.
  - Single Database design accommodates all survey types and needs.
  - Data integrated throughout the system.

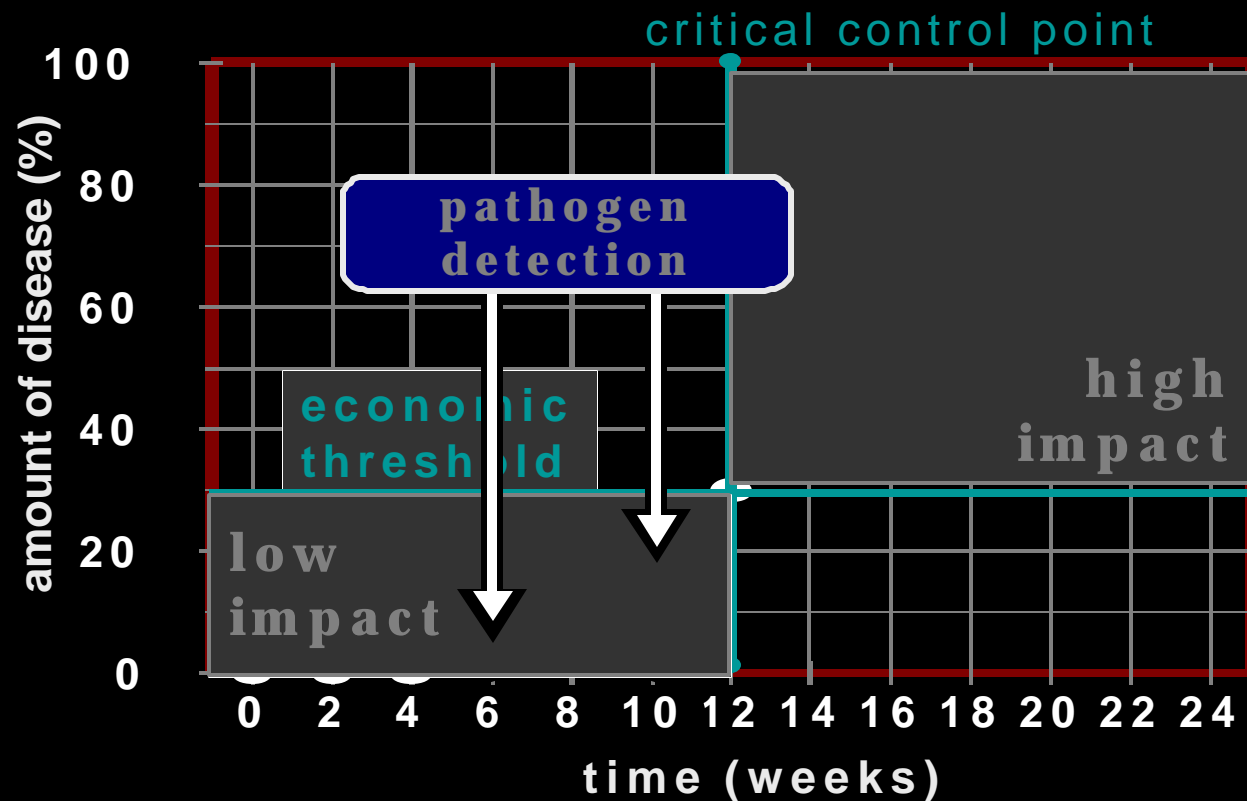


## Survey Data Collection

- **The current process:**
  - NAPIS standards are not followed.
  - NAPIS codes not user friendly.
  - Different entities use different codes.
  - Survey data is stored in various formats.
- **ISIS Solution:**
  - ISIS adheres to NAPIS naming conventions and codes.
  - Data conversion to NAPIS format is automatic.
  - ISIS creates a usable standard.

# Early Detection Critical! – National Plant Diagnostic Network Estimates

## Importance of Early Detection







## Survey Data Collection

- **The current process:**
  - Cannot address APHIS PPQ emergency programs.
  - Cannot respond rapidly to new pest outbreaks.
- **ISIS Solution:**
  - ISIS system facilitates rapid response to new pest outbreaks.
  - ISIS system can generate work assignments.
  - ISIS system tracks sample submission and diagnostics.



## ISIS Adheres to USDA technology standards

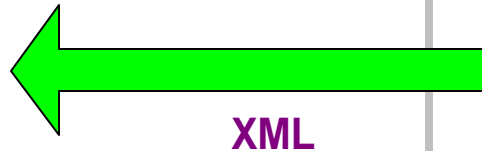
- Microsoft Windows CE on Pocket PC.
- CoPilot GPS units for each Pocket PC.
- Microsoft Access Database
- XML files
- Microsoft .NET framework

# System Diagram

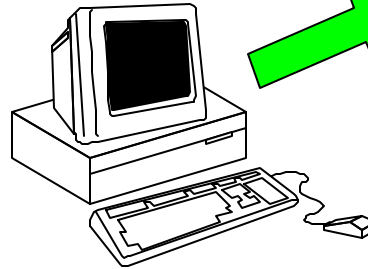
**ISIS PDA**



**Assign  
Surveys &  
Customized  
Templates**

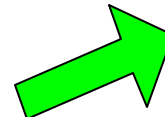


**ISIS DESKTOP**

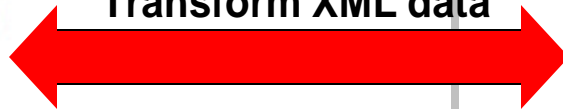


**Other data usages:**

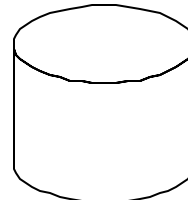
- Import to ArcView
- Statistical Analysis
- Custom Reports
- Canned Reports



**Transform XML data**



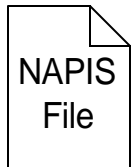
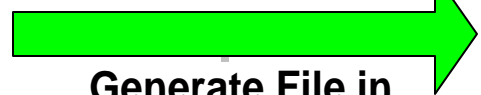
**Work Unit Database**



**ISIS Syncing**

**NAPIS Batch  
Generator**

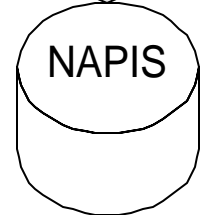
**Generate File in  
NAPIS Format**



**Submit  
to  
NAPIS**



**NAPIS**



**Populate Work Unit Database with  
NAPIS codes**







## ISIS v2.0




- Three Main Elements
  - Desktop Application
  - PDA Application
  - Microsoft Access Database



# ISIS v2.0


- Create customized survey templates
  - Select to optional fields from a predefined list
    - Hours
    - Miles
    - Flag
    - Grower Field Number
    - Field Size
    - Name (First, Last)
    - Host Variety
    - Company ID
      - Company Name
      - Contact Official
      - Other Contact Official
      - Name (First, Last, Salutation)
      - Address (Street, City, State, Zip)
      - Telephone
      - Secondary Phone
      - Fax
      - Email
      - Website
  - Customize Dropdown menu content and set default values
  - Allow for 10 custom fields





 **Log In**  **3:09** 

Inspector Name  ▼

Inspector ID

  
Integrated Survey Information System

 **Add Pest**  **4:13**

Observation #798946559, Pest #1

Comments:

Count

Pest Name  ▼

Life Stage  ▼

Descriptor  ▼

☐ Sample? Form#

Sample#



## NAPIS File Generator

ISIS v2.0 - [ISIS v2.0 - NAPIS Batch File Generator]

File Surveys Templates User Management Reporting Help

Survey Type:

Pest:

Inspector Name:

County/Parish:

Data from:  To:

Result:

- ☐ Positive and negative
- ☐ Positive
- ☐ Negative

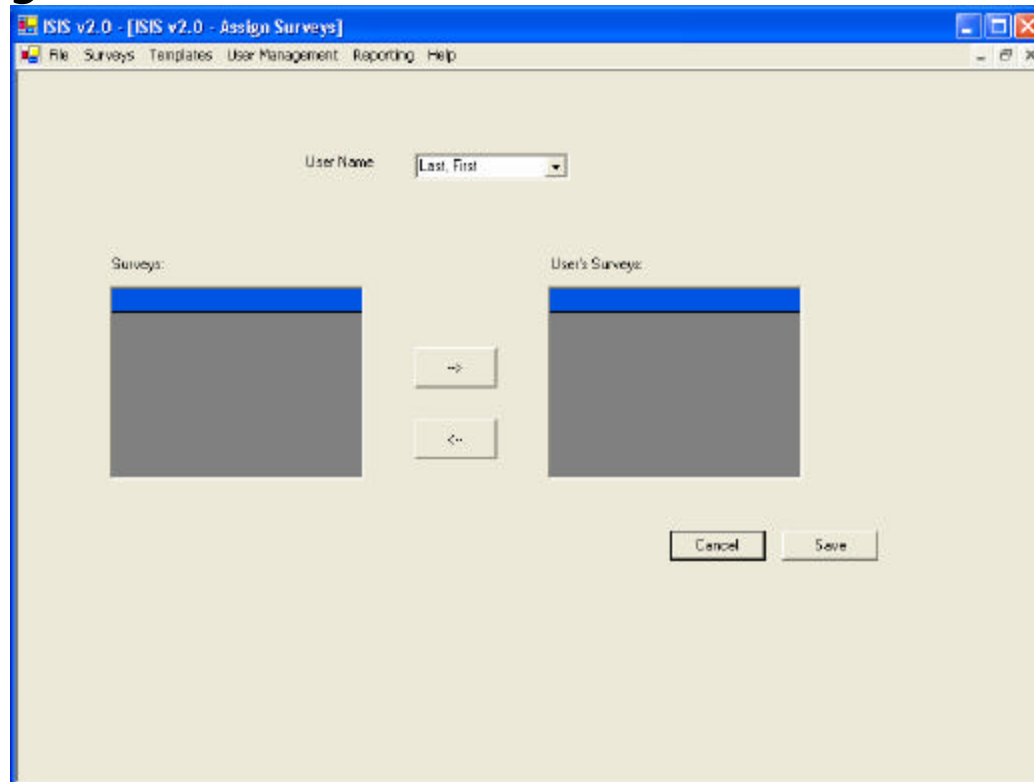
☐ Include data previously submitted to NAPIS

Output File:



## Survey Assignment

- Incomplete surveys can be assigned to employees



# USDA APHIS PPQ ISIS FOCUS GROUP

- Stephen Johnson - SPHD Nebraska
- Pat McPherren - Western Region
- Billy Newton - Eastern Region
- Mike Stefan - Emergency Programs





## Next Steps

- Complete ISIS version 2.0 March 2004.
- Initial Training March 2004 and ongoing.
- ISIS support provided March 2004 and ongoing.
- Enhancements directed by ISIS national focus group – summer 2004.
  - Arcpad Mapping
  - Bar Coding
  - Pest, Disease images on ISIS system



Questions/Comments